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0! 10 IntelliGenetics  
> 0 <

FastDB - Fast Pairwise Comparison of Sequences  
Release 5.4

Results file us-09-674-593-1-inv.res made by sdaavid on Mon 9 Sep 102 12:09:11-PDT.

Query sequence being compared: US-09-674-593-1' (1-1382)

Number of sequences searched: 8  
Number of scores above cutoff: 8

Results of the initial comparison of US-09-674-593-1' (1-1382) with:

File : US09674593.seq

100-

	Score	1	2	3	4	5	6	7	8
Score	0	76	152	229	305	381	457	534	610
STDEV									

#### PARAMETERS

Similarity matrix	Unitary	K-tuple	4	Initial Score	686	Optimized Score	818	Significance
Mismatch penalty	1	Joining penalty	30	Residue Identity	73%	Matches	882	Mismatches
Gap size Penalty	1.00	Window size	32	Gaps	95	Conservative Substitutions	288	0
Cutoff score	0.33							
Randomization group	0							

#### SEARCH STATISTICS

Scores:	Mean	Median	Standard Deviation	Total Elapsed	Elapsed	Elapsed	Elapsed	Elapsed	Elapsed
Times:	4494	4494	233.05	00:00:00.00	00:00:00.00	00:00:00.00	00:00:00.00	00:00:00.00	00:00:00.00
Number of residues:	310	320	330	340	350	360	370	380	390
Number of sequences searched:	8	8	8	8	8	8	8	8	8
Number of scores above cutoff:	8	8	8	8	8	8	8	8	8
	440	450	460	470	480	490	440	450	460
	440	450	460	470	480	490	440	450	460

The scores below are sorted by initial score.  
Significance is calculated based on initial score.  
A 100% identical sequence to the query sequence was not found.

The list of best scores is:

690 700 710 720 730 740 750  
GGTGACCGGGGGTCTGAGCACCCRTGGGCCGTCAGGARCATCTACACCCCCGGGACTGGCCPCCGAAAT  
760 770 780 790 800 810 820  
CCGAAAGTAGACCAAGATCCAGGGGGCAATTACGTGGTGGAGGCCAACGCTTCAGAAGAACTCAA  
830 840 850 860 870 880 890 X  
GTGAGTCGTCGTCCTCCCACGCCATTAGGTCGCCCTATAGTGTGGGGTGGATATGAGAAATGGCACA  
CATT  
X

900 910 920 930 940 950 960  
TCCCTACCCCCAACACCT-CAGTGGTGAAGGGGCTGACTTC-GGTGTGATGCCCTTAAACT  
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
ATGCTAACAGCTAACATGAGGGGG-GGAGCAGG--TCACAAAAGTGAGGTG---TCA-ATT  
10 20 30 40 50 60  
970 980 990 1000 1010 1020 1030  
CTCGTGGAGTGGGGTTAGA---GGTGACCTTGAGA---AGGA-TTTCAC-TGGGTTA  
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
CTACTGGG-ATGAAAGTTGAATAATTAAACAGT-ACGGAAATGAGCAAGCAATTCTCCCTGGTGA  
70 80 90 100 110 120 130  
1040 1050 1060 1070 1080 1090  
GCAGTA-GGAGT-AA ACTTAAATCTGTGATAAACACAGGAATCTTAAAGAAATAAAAGGTATCTT  
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
-CATATATGTCACATGGAA -GIGATTTTAAAGATGTTT-TAAATTAAAAGGATGGTTCCA  
140 150 160 170 180 190 200  
1100 1110 1120 1130 1140 1150 1160 1170  
TGCRAAGGTTAGGACAAACGATACCTTTCGTTTCTGTTCTTCCTTCCCTA-TTTT  
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
AGGAA-AAAATAGGAAAGGAAAGAAACACTGAGCAAGAACGAAAGTATCAGTTGGRACTAAC  
210 220 230 240 250 260 270  
1180 1190 1200 1210 1220 1230 1240  
TTTTCATGAAATCATCCTTTTAATTAA-ATAAACATCTTAAATACTTCAACTGTTGACACT  
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
CTTTGCAAGGATACCTTTTATTTCTTAAAGTTCTGTGTTATACAGATTAAAGTTTAAAGTTT--ACTC-  
280 290 300 310 320 330 340  
1250 1260 1270 1280 1290 1300  
ATATTGACAGGAGAAATTGTCGATTCCTCGTACTTTTCAACTTCAACCTTIC-ATTC  
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
CTACTGTGACC-CAAGTGA-AATTCTT---TCMCCAGTCACAGTGTCA--ACCTCTAACCCCAACTG  
350 360 370 380 390 400  
1310 1320 1330 1340 1350 1360 1370  
CAGTGA-A-ATTA ---CAACACTACTTTGTA---CCCTGTCTGATGTTATGCTG  
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  
CTACGAGAGTTGAGGGCATACAC-ACCGAGAAGTCAAGGCCCTAACACACTG-AGGTGGGG  
410 420 430 440 450 460 470  
1380 X  
TAAAGCATATG  
| |  
GTTGGGATCTGCAATTCTCATATCACCCCCACACTATAGGGCACCTAAATGGTGGGGGTGGGAGACC  
480 490 500 510 520 530 540  
GACTCACTTGAGTTCTGAAAGACTTCATGGCTCAGGTAATTGCTGATCTGGTCTG  
550 560 570 580 590 600 610 620  
CTTCGGGATTGGTGGCCAGTCGGGGTGTAGATGTTCTGACGCCAAAAGGGTGTGAAAGGCC  
630 640 650 660 670 680 690  
GGTCACCTCCTCAGGAAACTTCAGGCTGAACTCTCTCTCTGATGAGCGGCCGCCGCTA  
700 710 720 730 740 750 760  
GAAGGGGTCGGTGGTACAAACACGGCTCTCACGAGGGCTGAGACAGGGCTGACCTGGCT  
770 780 790 800 810 820 830

GCTGCCGCTCATCTTCCCGTGGCCCGCTCAGTCGTCGCTGGAGGGCACCCGCTTCAGTCGCTGTC  
840 850 860 870 880 890 900  
CAGCGGCCTCACGCCACCCAGGCCAACGAGGGATGCTGCTCTGAAACGAACTGACGAACT  
910 920 930 940 950 960 980  
AAGAGAGA

3. US-09-674-593-1' (1-1382)  
US-09-674-593-10 Sequence 10, Application US/09674593

Sequence 10, Application US/09674593  
GENERAL INFORMATION:

CURRENT APPLICATION NUMBER: US/09/674-593

CURRENT FILING DATE: 2000-06-07

PRIOR APPLICATION NUMBER: PCV/US99/10424

PRIOR FILING DATE: 1999-05-13

PRIOR APPLICATION NUMBER: US-60/085,318

PRIOR FILING DATE: 1998-05-13

NUMER OF SEQ ID NOS: 11

SOFTWARE: FastSEQ for Window Version 3.0

SEQ ID NO 10

LENGTH: 246

TYPE: DNA

ORGANISM: Homo sapiens

Initial Score = 54 Optimized Score = 107 Significance = -0.24

Residue Identity = 51% Matches = 137 Mismatches = 85

Gaps = 44 Conservative Substitutions = 0

5. US-09-674-593-10' (1-1382)

US-09-674-593-10 Sequence 10, Application US/09674593

GENERAL INFORMATION:

APPICANT: Van den Eynde, Benoit

APPICANT: Bon-Pailleur, Thierry

TITLE OF INVENTION: TUMOR ASSOCIATED ANTIGEN ENCODED BY THE REVERSE STRAND

FILE REFERENCE: LO61/7099

CURRENT APPLICATION NUMBER: US/09/674-593

CURRENT FILING DATE: 2000-06-07

PRIOR APPLICATION NUMBER: PCV/US99/10424

PRIOR FILING DATE: 1999-05-13

PRIOR APPLICATION NUMBER: US-60/085,318

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TCATGAGAAGAGGTCTCCAGCTTCAGAAGTCTCCAGGCTTCAAGTCTCCAGCACCCTTGGCT  
550 560 570 580 590 600 610 620

GGCCGCTCAGGGAACTATCACCCCGGACTCCGGCAGCTGGCAACGATAGCCAGGGGG  
720 730 740 750 760 770 780

TTCAGGTGCCCTATAGTGTGGTTGATATGGAGAAATGAGCAGATGGCT  
790 800 810 820 830 840 850

GGAAATTACGTGCTGGCTGACTCTCGGTGTTGATTGATGCCCTCAAACTCAGTGTGGCT  
860 870 880 890 900 910 920

TGTGACTGGAGAGAAATTCTGTTGGCTCAGCAGTGGAGTAACCTTAAATCTGNTATAAACACAGGA  
930 940 950 960 970 980 990 1000

GCGGCCTGCTGACTCTCGGTGTTGATTGATGCCCTCAAACTCAGTGTGGCT  
1010 1020 1030 1040 1050 1060 1070

ATCTTAAAGAAAAATAAAAGCTATCCTTGCACAAAGTTAGTGGACCAAACTGATTA  
1080 1090 1100 1110 1120 1130 1140

ATCTTAAAGAAAAATAAAAGCTATCCTTGCACAAAGTTAGTGGACCAAACTGATTA  
1150 1160 1170 1180 1190 1200 1210

GTTCCTTCCTTCCTTATTTTCTCTTCTGAAATTCATCCTTCTGAAATTCATCCTTCT  
1150 1160 1170 1180 1190 1200 1210

-TTAACCTTCTGAAAGTACCTT-TTATTTCT-TTAAAGAT---TCTCTGTT  
10 20 30 40 50 60

1220 1230 1240 1250 1260 1270

AAAAATCACTTCAAAGTGTGAC -- ACT-TATTT - GTCACTGCTGCTGCT  
11 12 13 14 15 16

A-AGTTAC-TCTACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT  
70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 110 120



CCA-X  
 560 570 580 590 600 610 620  
 GTTCAGGCCACCTGTCAGCCCCGGTGGAAAGCGGCTTGATCCGAAACGGGAACCCCCTTAGCGGGG  
 ||||| | |  
 - - ACAGGCCACATAAAC-X  
 10  
 630 640 650 660 670 680 690  
 GCGCCGCCTCGTATCAGAGAAGGGTGTCAAGGTTCTCGAAGGTCTCCCTGAGGGGTACCGGGGG  
 700 710 720 730 740 750 760 770  
 TCAAGGCACCCCTGGGCCGTTAGGAAACATCTAACCCCCGGACTGGCCACCGGAATCGGAAGGTAGACCA  
 780 790 800 810 820 830 840  
 GATTCAGAGGGGGAAATTAGGGTGGGGCCAGAGCTTCAGAAACTCAAGTGAATCTCCC  
 850 860 870 880 890 900 910  
 CCACGCCACCCATTAGGTCCCTATAGTGGGGTTGATATGAGAAATGAGATCCCCCTAACACTCGTGGATGGGG  
 920 930 940 950 960 970 980  
 ACCCTCAGGGTTAGGGGCTGTGACTCTCGGTGATTGATGCCCTCAAACACTCGTGGATGGGG  
 990 1000 1010 1020 1030 1040 1050  
 GTAGAGGTGACACTGTGACTGGAGAAGGAATTCACTTGGGTAGGAGTAAACITTAATCTGTG  
 1060 1070  
 TATAAACACAGC



GenCore version 4.5  
Copyright (c) 1993 - 2000 Compugen Ltd.

OM protein - protein search, using sw model  
Run on: September 6, 2002, 07:32:44 ; Search time 0.01 Seconds  
(without alignments)  
3.998 Million cell updates/sec

Title: us-09-674-593-2  
Perfect score: 451  
Sequence: 1 MDDDAAPRVEGVPAVHKHA.....GAGSPPETNEKLTNPQKEK 84

Scoring table: BLOSUM62  
Gapop 10.0 , Capext 0.5

Searched: 1 seqs, 476 residues

Total number of hits satisfying chosen parameters: 1  
Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

.st-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 2 summaries

Database : us-09-674-593-5:

Pred. No. is the number of results predicted by chance to have a a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Query Score	Match Length	DB ID	Description
1	51	11.3	476	1 us-09-674-593-5

#### ALIGNMENTS

RESULT 1  
us-09-674-593-5

Query	Match	Score	DB	Length
{Qy	DAAPRVEGVPAVHKHALDGLRQYAGPGAAAHLPRWPPQLAASRREAPPLSORPHRT	11.36	1	476
Db	383 DAEQVE-----EILDSEQQARPARVNGGDEENGELQVNNELQLVLDKERKS	Best Local Similarity	23.11	2;
Qy	64 OGAGS-----PPETEKLTNPQKE 83	'tches	21; Conservative	0;
Db	434 OGAGSGDDEADYDPQRPRPKTISPEENE 464	Mismatches	10;	Indels 20; Gaps 2;

Search completed: September 6, 2002, 07:32:44  
Job time: 0 sec

1280 1290 1300 1310 1320 1330  
 CGTACTG--TTAAATATTTCACCTTCATC-CAGTAGATTGACA-ACTC---ACT--TTTGTG  
 | | | | | | | | | | | | | | | | | | | | | |  
 CCACTGGACAGATTTGAGGCCATAACGAGAAGTACAGGCCCTAACCCACTGAGCTGCG  
 140 150 160 170 180 190 200  
 1340 1350 1360 1370 1380 X  
 ACCCTGCTCCACCCCTCATGTTAGCTGTTA---GCATATG  
 | | | | | | | | | | | | | | | | | | | | | |  
 GGGGTAGGA---TCTCAT-TCTCATACACCCACACTA  
 | | | | | | | | | | | | | | | | | | | | | |  
 210 220 230 240 X

4. US-09-674-593-1' (1-1382) Sequence 11, Application US/09674593

Sequence 11, Application US/09674593

GENERAL INFORMATION:

APPLICANT: Van den Eynde, Benoit

APPLICANT: Boon-Falleur, Thierry

TITLE OF INVENTION: TUMOR ASSOCIATED ANTIGEN ENCODED BY THE REVERSE STRAND

OF A NEW UBIQUITOUSLY EXPRESSED GENE

FILE REFERENCE: L0461/7099

CURRENT FILING DATE: 2000-06-07

PRIOR APPLICATION NUMBER: PCT/US99/10424

PRIOR FILING DATE: 1999-05-13

PRIOR APPLICATION NUMBER: US 60/085,318

PRIOR FILING DATE: 1998-05-13

NUMBER OF SEQ ID NOS: 11

SOFTWARE: FastSEQ for Window Version 3.0

SEQ ID NO: 11

LENGTH: 613

TYPE: DNA

ORGANISM: Homo sapiens

FEATURE:

NAME/KEY: unsure

LOCATION: 242..242

OTHER INFORMATION: n = a, c, g or t

NAME/KEY: unsure

LOCATION: 317..317

OTHER INFORMATION: n = a, c, g or t

NAME/KEY: unsure

LOCATION: 320..320

OTHER INFORMATION: n = a, c, g or t

NAME/KEY: unsure

LOCATION: 424..424

OTHER INFORMATION: n = a, c, g or t

NAME/KEY: unsure

LOCATION: 429..429

OTHER INFORMATION: n = a, c, g or t

NAME/KEY: unsure

LOCATION: 44..44

OTHER INFORMATION: n = a, c, g or t

NAME/KEY: unsure

LOCATION: 470..470

OTHER INFORMATION: n = a, c, g or t

NAME/KEY: unsure

LOCATION: 478..478

OTHER INFORMATION: n = a, c, g or t

NAME/KEY: unsure

LOCATION: 483..483

OTHER INFORMATION: n = a, c, g or t

NAME/KEY: unsure

LOCATION: 48..48

OTHER INFORMATION: n = a, c, g or t

NAME/KEY: unsure

LOCATION: 516..516

OTHER INFORMATION: n = a, c, g or t

NAME/KEY: unsure

LOCATION: 528..528

OTHER INFORMATION: n = a, c, g or t

NAME/KEY: unsure

LOCATION: 543..543

OTHER INFORMATION: n = a, c, g or t

NAME/KEY: unsure

LOCATION: 579..579

OTHER INFORMATION: n = a, c, g or t

NAME/KEY: unsure

LOCATION: 591..591

OTHER INFORMATION: n = a, c, g or t

NAME/KEY: unsure

LOCATION: 591..591

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